

***Amendments to the Claims:***

This listing will replace all previous listings and versions of the claims in the application:

***Listing of claims:***

1. (Canceled)

2. (Currently Amended)      The laser system of claim [[1]] 34 wherein the optical channel comprises two optical channels and said transmission is simultaneous along the two optical channels.

3.-7. (Canceled)

8. (Currently Amended )      The laser system of claim [[1]] 34 wherein said head includes a digit clip.

9.-33. (Canceled)

34. (Previously Presented)    A laser system for therapeutic treatment of bacteria in an infected site with non-ionizing optical energy and without detrimental heat deposition or irreversible harm to a biological system including the infected site, the system comprising:

(a) a laser oscillator system configured and arranged to selectively emit near infrared radiation at a power density in one or both of a first wavelength range of about 865 nm to about 875 nm and a second wavelength range of about 925 nm to about 935 nm;

(b) a control connected to the laser oscillator system, the control configured and arranged to control the selective emission of near infrared energy at the power density from the laser oscillator system for absorption as non-ionizing optical energy without detrimental heat deposition or irreversible harm to the biological system at the infected site;

(c) an optical channel connected to the laser oscillator system, the optical channel configured and arranged for transmission of the near infrared radiation; and

(d) a head configured and arranged to deliver the near infrared energy from the laser oscillator system and the optical channel to bacteria in the infected site at the power density for absorption at the infected site.

35. (Previously Presented) The system of claim 34, wherein the control is configured and arranged to adjust the power density of the emitted near infrared energy, forming an adjusted power density, wherein the adjusted power density comprises a necessary bactericidal density at the infected site.

36. (Canceled)

37. (Previously Presented) The system of claim 34, further comprising a housing configured and arranged to hold the laser oscillator system.

38.-42. (Canceled)

43. (New) The system of claim 34, wherein the first wavelength ranges comprises 870 nm and the second wavelength range comprises 930 nm.

44. (New) The system of claim 34, wherein said system is configured and arranged to produce photodamage to the bacteria at the infected site.